Index of Claims

| Application | on/Co | ontrol | No. |
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10/718,025

Examiner

Camie S. Thompson

Applicant(s)/Patent under Reexamination

OSHIYAMA ET AL.

Art Unit

1774

| 1 | Rejected |   | (Through numeral)<br>Cancelled | <b> </b> | ı | Non-Elected  | A | Appeal   |
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| = | Allowed  | ÷ | Restricted                     | 1        |   | Interference | 0 | Objected |

| CI          | aim          | 1               | 9—              |          |          | Date           |              |  |                 | $\neg$   | Cla       | im       | <b>1</b> | b        |                 | Г        | Date               |          |                   |         | ٦. | CI            | aim          | _        |           |           |          | ate      |          |          |          |           |
|-------------|--------------|-----------------|-----------------|----------|----------|----------------|--------------|--|-----------------|----------|-----------|----------|----------|----------|-----------------|----------|--------------------|----------|-------------------|---------|----|---------------|--------------|----------|-----------|-----------|----------|----------|----------|----------|----------|-----------|
| <u>~~</u>   |              | $\overline{}$   |                 | _        |          | I              |              |  | П               | $\dashv$ |           |          |          |          |                 | Ť        |                    | Т        | т                 | $\top$  | 1  | - <del></del> |              | П        | т         | П         | 寸        | Ť        | Ť        |          | Т        | $\dashv$  |
| ۱ ـ         | Original     | 10              | 1               |          |          | l              |              |  |                 |          | =         | Original | 10/12    |          |                 |          |                    | - 1      |                   |         | 1  | l =           | Original     |          |           |           |          |          |          |          | - }      |           |
| Final       | l · <u>j</u> | $\mathbb{Z}$    | l               |          |          | l              |              |  | 1               |          | Final     | ·j       | /        |          |                 | -        |                    |          |                   |         | 1  | Final         | .ig          |          | - 1       |           |          |          |          | ı        | 1        |           |
| ፲፫          | ٦.           | 0               | 1 1             |          |          |                |              |  |                 |          | L.        | Ö        | 10       |          |                 |          |                    | - 1      |                   |         | ı  | L.            | \overline{6} | ŀ        |           |           |          |          |          | - 1      |          |           |
|             | Ľ            |                 | Ш               |          |          | 乚              |              |  |                 |          |           |          |          |          |                 |          | _                  | _        |                   |         | ]  |               |              |          | $\perp$   |           |          | $\Box$   | ᆚ        | _        | _        |           |
|             | 1            | ~               |                 |          |          | l              |              |  |                 |          |           | 51       | 7        |          |                 |          |                    |          |                   |         | J  |               | 101          |          |           |           |          |          | $\_ ot$  |          |          |           |
|             | 2            | 1               | П               |          |          | Г              | Π            | Γ  |                 |          |           | 52       |          |          |                 |          |                    |          |                   |         | 1  |               | 102          |          |           |           |          |          |          |          |          |           |
|             | 3            | 1               | П               |          |          | Г              | П            |  |                 | 7        |           | 53       |          |          |                 |          |                    |          |                   |         | 1  |               | 103          |          | $\neg$    | П         |          |          |          |          | Т        | $\neg$    |
|             | 4            | 1./             | П               |          |          | Г              |              |  | $\Box$          | _        |           | 54       |          |          |                 |          |                    | 寸        |                   |         | 1  |               | 104          |          | $\neg$    | $\neg$    |          |          | $\neg$   |          | $\neg$   | $\neg$    |
|             | 5            | 1               | Н               | 一        |          | T              | T            |  | $\Box$          |          |           | 55       |          | П        |                 |          |                    | ┪        | _                 | ┰       | 1  |               | 105          | $\neg$   | $\neg$    | $\neg$    |          | $\neg$   | 寸        | $\dashv$ | 十        | $\neg$    |
|             | 6            | 7               | Н               | 一        |          | $\vdash$       | H            | 1  | $\vdash$        | _        |           | 56       | $\vdash$ |          |                 | $\neg$   |                    | ┪        | 十                 | $\top$  | 1  |               | 106          |          | _         | ┪         |          | $\dashv$ | 一        | $\dashv$ | ┪        | $\dashv$  |
|             | 7            | تا              | H               | $\dashv$ |          | $\vdash$       | $\vdash$     |  | -               | $\dashv$ | -         | 57       | Н        | Н        | Н               | _        | $\neg$             | -        | 十                 | +       | ┪  |               | 107          | $\dashv$ | 十         | 一         | $\dashv$ | $\dashv$ | ᅥ        | $\dashv$ | +        | $\dashv$  |
| <b></b>     | 8            | Ž               | Н               | $\dashv$ | _        | ┢              | $\vdash$     | <del>                                     </del> | $\vdash$        | $\dashv$ | $\vdash$  | 58       | $\vdash$ | Н        | $\vdash$        | $\neg$   |                    | -+       | $\dashv$          | +       | ┨  | i             | 108          | -        | $\dashv$  | $\dashv$  | -        | $\dashv$ | ᅱ        | -+       | ╅        | ᅱ         |
| <u> </u>    |              | 1               | $\vdash$        | ┥        |          | ⊢              | ┢            | <del>                                     </del> | $\vdash$        | -        | $\vdash$  | 59       | $\vdash$ | Н        | -               | $\dashv$ | $\dashv$           | +        | -                 | +-      | ┨  | <b>—</b>      |              | $\dashv$ | +         | ┥         | _        | ᅱ        | ᅱ        | -+       | +        | ᅱ         |
| <b>—</b>    | 9            | 1               | ⊢⊢              |          | _        | -              | <b>├</b>     | -  | $\vdash \vdash$ | $\dashv$ | -         |          | $\vdash$ | Н        | Н               | -        | $\dashv$           |          | +                 | +       | 4  | $\vdash$      | 109          |          | +         | $\dashv$  | -        | $\dashv$ | $\dashv$ | -        | +        | $\dashv$  |
|             | 10           | 1               | $\sqcup$        |          |          | _              |              | _  |                 |          |           | 60       | _        | Н        | $\Box$          | _        |                    | -+       | -                 | +       | 4  | <u> </u>      | 110          | $\dashv$ | $\dashv$  | $\dashv$  | _        | _        |          | -+       | $\dashv$ | 긕         |
| <u> </u>    | 11           | 12              | $\sqcup$        | _        |          | <u> </u>       | <u> </u>     | <u> </u>   | ⊢               | _        |           | 61       |          | Щ        | $\vdash$        | _        | $\dashv$           | _        | +                 | +-      | 4  | ļ             | 111          | _        | $\dashv$  | _         |          |          |          | 4        | 4        | _         |
|             | 12           | 12              | $\sqcup$        | _        |          | <u> </u>       | ــــ         | _  | $\sqcup$        | Ц.       |           | 62       | _        | Щ        | Ш               |          | _                  | _        | $\bot$            | _       | 4  |               | 112          | _        | _         | 4         |          | _        | 4        | _        | $\perp$  | _         |
| <u></u>     | 13           | 114 12 13 13 13 | Ш               | _        |          |                |              | $oxed{\Box}$                                     | Ш               | ᆀᆞ       | $\Box$    | 63       | Щ        | Щ        | Ш               | _        | $\perp$            | _        | _                 |         | 1  |               | 113          |          | $\perp$   | _         |          |          | _        | _        | _        | _         |
| <u></u>     | 14           | 9               | لـــا           |          |          | $oxed{oxed}$   |              |  | Ш               | _        |           | 64       | Ш        | Ш        |                 |          |                    | $\perp$  | $\perp$           | $\perp$ | Ţ  |               | 114          |          | $\perp$   |           |          |          |          |          | $\perp$  |           |
| L           | 15           | 0               | Ш               |          |          |                |              |  | Ш               |          |           | 65       |          |          | $oxed{oxed}$    | [        |                    | $\Box$   |                   |         | Ţ  |               | 115          | $\bot$   |           |           |          |          | _]       |          |          |           |
|             | 16           | 1               |                 |          | •        |                |              |  |                 |          |           | 66       |          |          |                 |          |                    | $\Box$   | $oldsymbol{\bot}$ |         | J  |               | 116          | $\Box$   | $\Box$    |           |          |          |          |          | $\Box$   |           |
|             | 17           | 1               | П               | $\neg$   |          |                |              |  | Т               |          |           | 67       |          |          |                 | $\neg$   |                    | Π        |                   |         |    |               | 117          | $\Box$   | T         | T         |          |          | $\Box$   | T        | T        |           |
|             | 18           | 5               | П               | $\neg$   |          |                |              |  |                 |          |           | 68       | П        |          |                 |          |                    | 寸        | 1                 | $\top$  | 1  |               | 118          |          |           |           |          |          | 一        | $\neg$   | $\Box$   | $\Box$    |
|             | 19           | 1               |                 |          |          |                |              |  |                 |          |           | 69       |          |          |                 | ヿ        |                    | $\dashv$ |                   | _       | 1  |               | 119          |          |           | $\neg$    |          |          | 一        |          | $\neg$   | $\neg$    |
|             | 20           | 11              | П               |          |          |                | $\vdash$     | _  | $\vdash$        |          |           | 70       | $\Box$   |          | $\neg$          | $\neg$   |                    | T        | $\neg$            | 十       | 1  |               | 120          | $\neg$   | ヿ         |           |          |          | 寸        | $\dashv$ | $\neg$   | $\neg$    |
|             | 21           | 0               | Н               | ┪        |          |                | T            |  | H               | _        |           | 71       |          |          | $\dashv$        | $\neg$   |                    | ┪        | $\neg$            | _       | 1  | <b></b>       | 121          | $\neg$   | $\dashv$  | $\neg$    | $\neg$   |          | 寸        | $\dashv$ | 7        | ヿ         |
|             | 22           | 2               | Н               | 一        |          | _              | $\vdash$     |  | $\vdash$        | _        |           | 72       | -        |          | $\vdash$        | _        | -                  | 十        | _                 | _       | 1  |               | 122          | $\neg$   | $\dashv$  | $\neg$    |          |          | 一        | _        | _        | $\dashv$  |
| <u> </u>    | 23           | 11              | Н               | $\dashv$ |          | $\vdash$       | $\vdash$     | $\vdash$   | $\vdash$        | _        | -         | 73       | $\vdash$ | Н        | -               | $\neg$   | $\neg$             | 十        |                   | ╅       | 1  | <b>—</b>      | 123          | $\dashv$ | -         | _         | $\neg$   |          | $\dashv$ | $\dashv$ | $\dashv$ | 一         |
| -           | 24           | 0               | H               | ┪        | _        | $\vdash$       | ⊢            | -  | ┝┿              | -        | $\vdash$  | 74       | H        | Н        | $\dashv$        |          | $\dashv$           | ┪        | +                 | +       | ┨  | H-            | 124          | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$ | ᅱ        | +        | +        | ᅱ         |
| $\vdash$    | 25           | 11              | $\vdash$        | -        | _        | -              | -            |  | $\vdash$        | $\dashv$ | $\vdash$  | 75       | Н        | Н        | $\dashv$        | -        | $\dashv$           | $\dashv$ | $\dashv$          | +       | ┨  | <b>—</b>      | 125          | $\dashv$ | -         |           | -        | -        |          | -        | -+       | $\dashv$  |
| -           | 26           | 0               | Н               | $\dashv$ | _        | ├              | ⊢            | ⊢  | $\vdash$        | $\dashv$ |           | 76       | H        |          | -               | -        |                    | ᅪ        | -+                | ╫       | ┨  | <b></b>       | 126          |          | $\dashv$  | .         | $\dashv$ | -        |          | -        | $\dashv$ | $\dashv$  |
| $\vdash$    |              | 1               | Н               | $\dashv$ | _        | <del> </del>   | <del>-</del> | $\vdash$   | $\vdash \vdash$ |          |           | 77       | -        | Н        | $\dashv$        | $\dashv$ | $\dashv$           | +        |                   | -       | -  | <b> </b>      | 120          | -        | $\dashv$  | $\dashv$  | _        | -        | -        | -        | +        | $\dashv$  |
| <u> </u>    | 27           | 12              | H               | $\dashv$ |          | _              |              | <u> </u>   | $\vdash$        | 4        | $\vdash$  |          | <u> </u> | Н        | $\dashv$        | -        | -                  | $\dashv$ | $\dashv$          | +       | ┨  |               | 127          |          | -         | $\dashv$  |          | -        | -        | $\dashv$ | +        | $\dashv$  |
| <u> </u>    | 28           | -               | Н               | $\dashv$ |          | -              | <u> </u>     | <del> </del>                                     | $\vdash$        | _        | $\vdash$  | 78       | $\vdash$ | $\vdash$ | $\dashv$        |          |                    | -        |                   | +       | -  | -             | 128          |          | -         | $\dashv$  | _        | _        |          | -        | +        | $\dashv$  |
| <u></u>     | 29           | 11              | Н               | _        |          | -              | <u> </u>     | <del>  -</del>                                   | $\vdash$        | _        | -         | 79       |          |          | _               | -        | _                  | -        | -                 | -       | 4  | <u> </u>      | 129          | -        | $\dashv$  | -         | _        | _        | $\dashv$ |          | $\dashv$ | $\dashv$  |
|             | 30           | -               | $\Box$          | _        |          | _              | _            | <u> </u>   | $\vdash$        | _        | $\vdash$  | 80       |          | Ш        | Ц               | _        | _                  | 4        | $\dashv$          | _       | 4  | -             | 130          | _        | _         | _         |          | _        | _        | _        | 4        |           |
| <u> </u>    | 31           | 1/              | $\sqcup$        |          |          |                | _            | _  | $\sqcup \bot$   | _        | $\vdash$  | 81       | Щ        | Ш        | Щ               | _        |                    |          |                   | $\bot$  | 1  | <u> </u>      | 131          | _        | _         | _         | _        | ļ        | ļ        | 4        | 4        | _         |
|             | 32           | 3               | Ш               |          |          |                | <u> </u>     | _  | $\sqcup$        | _        | $\square$ | 82       | Щ        | Ш        | Ш               |          | $\perp$            | _        | $\perp$           | $\perp$ | 1  |               | 132          | _        | 4         | _         | $\Box$   | _        | ᆚ        | _        | _        |           |
| L           | 33           | 2               | Ш               |          |          |                |              | <u> </u>   | $\sqcup$        | _        |           | 83       | Ш        | Ш        |                 |          |                    | $\perp$  | $\bot$            | $\perp$ | 1  |               | 133          | _        |           |           |          |          |          | _        |          |           |
|             | 34           | 72              | Ш               |          |          | L              |              |  |                 | _        |           | 84       |          | Ш        |                 |          |                    |          |                   |         | 1  |               | 134          |          |           |           |          |          |          |          |          | _]        |
|             | 35           | 2               | Ш               | I        |          |                |              |  |                 |          |           | 85       |          | $\Box$   |                 | ]        |                    | $\Box$   |                   |         | ŀ  |               | 135          |          |           |           |          |          |          |          |          |           |
|             | 36           |                 |                 |          |          | L              |              |  |                 |          |           | 86       |          |          |                 |          |                    |          | $\Box \Gamma$     |         | ]  |               | 136          |          | $_{ m I}$ |           |          |          |          |          | T        |           |
|             | 37           |                 |                 | 一        |          |                |              | $\Box$   | $\Box \top$     |          |           | 87       |          |          |                 |          |                    |          |                   | Т       | 1  |               | 137          |          | T         | _1        |          |          |          |          |          | $\Box$    |
|             | 38           | Г               | П               | 一        |          |                |              |  | П               |          |           | 88       |          | П        |                 |          | $\Box$             | $\neg$   |                   |         | 1  |               | 138          | $\Box$   | $\neg$    | ╗         |          |          | コ        |          | $\top$   | $\neg$    |
|             | 39           | Г               | П               | 寸        |          |                |              |  |                 | $\neg$   |           | 89       |          |          |                 |          | $\neg$             | $\neg$   | _                 | $\top$  | 1  |               | 139          |          | $\neg$    | $\exists$ |          |          |          | $\neg$   | .        | $\neg$    |
|             | 40           | <u> </u>        | П               | _        |          | Г              |              |  | $\Box$          | 7        |           | 90       | П        | П        | $\vdash$        |          | $\dashv$           | 7        | $\dashv$          | _       | 1  |               | 140          | $\dashv$ | $\neg$    | ┪         |          |          |          | $\neg$   | $\neg$   | $\exists$ |
|             | 41           | $\vdash$        | $\vdash$        | $\dashv$ |          |                | $\vdash$     | $\vdash$   | $\vdash$        | $\neg$   | $\Box$    | 91       | П        | Н        | $\vdash$        |          | $\dashv$           | 十        | $\top$            | $\top$  | 1  |               | 141          | $\dashv$ | 十         | 1         | $\neg$   | $\neg$   | $\dashv$ | 一        | ヿ        | $\dashv$  |
|             | 42           | T               | H               | $\dashv$ |          | Т              | Т            |  | $\vdash$        | $\neg$   |           | 92       | $\vdash$ | Н        | $\dashv$        |          | -                  | $\dashv$ | 十                 | +       | 1  |               | 142          | $\dashv$ | $\dashv$  | 7         | _        |          |          | 7        | $\dashv$ | $\dashv$  |
|             | 43           | -               | Н               | $\dashv$ |          | i —            | $\vdash$     | $\vdash$   | $\vdash$        | $\dashv$ |           | 93       | М        | Н        | Н               | $\neg$   | $\dashv$           | +        | $\dashv$          | $\top$  | 1  |               | 143          | $\dashv$ | $\dashv$  | ┪         | $\neg$   | $\dashv$ |          | $\dashv$ | 十        | $\dashv$  |
| 1           | 44           |                 | Н               | $\dashv$ | $\dashv$ | $\vdash$       | $\vdash$     | $\vdash$   | $\vdash$        | $\dashv$ |           | 94       | Н        | $\vdash$ | $\vdash$        | -        | -                  | $\dashv$ | +                 | +       | 1  |               | 144          | $\dashv$ | $\dashv$  | ┪         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
| -           | 45           | =               | H               | $\dashv$ | -        | $\vdash$       | $\vdash$     | H  | $\vdash$        | $\dashv$ | -         | 95       | $\vdash$ | $\vdash$ | $\vdash$        |          | $\dashv$           | ┰        | +                 | +       | ┨  | -             | 145          | $\dashv$ | $\dashv$  | $\dashv$  | -        | $\dashv$ | $\dashv$ | -+       | $\dashv$ | $\dashv$  |
| $\vdash$    | 46           | 2               | $\vdash$        | $\dashv$ |          | $\vdash$       | -            | Н  | $\vdash$        | $\dashv$ | $\vdash$  | 96       | Н        |          | $\dashv$        | -        | $\dashv$           | $\dashv$ | +                 | +       | ┨  | -             | 146          | $\vdash$ | $\dashv$  | $\dashv$  | -        | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$  |
| -           | 47           | 2               | Н               | -        | $\dashv$ | -              | <del> </del> | Н  | -               | $\dashv$ | $\vdash$  | 97       | $\vdash$ | Н        | $\vdash \dashv$ | -        | $\dashv$           | -+       | +                 | +       | -  |               | 147          | $\dashv$ | +         | $\dashv$  | $\dashv$ | $\dashv$ |          | -+       | +        | -         |
| <del></del> | -            | 2               | $\vdash \vdash$ | -        | _        | $\vdash$       | $\vdash$     | $\vdash$   |                 | $\dashv$ | $\vdash$  | 98       | $\vdash$ | Ш        | $\vdash \dashv$ | $\dashv$ | -+                 | -        | $\dashv$          | - -     | -  | -             | 148          |          | $\dashv$  | $\dashv$  | $\dashv$ | $\vdash$ | -        | $\dashv$ | $\dashv$ | 4         |
|             | 48           | =               | $\vdash \vdash$ | -        | -        | <del> </del> — | $\vdash$     | $\vdash$   | $\vdash$        | $\dashv$ | -         |          | $\vdash$ | $\vdash$ | $\vdash$        |          | -                  | $\dashv$ | +                 | +-      | -  |               |              | $\dashv$ | $\dashv$  | -         |          |          |          | $\dashv$ | +        | 4         |
| <u> </u>    | 49           | =               | $\sqcup$        |          |          | <u> </u>       | $\vdash$     | $\vdash$   | $\vdash$        |          |           | 99       |          | Ш        | ert ert         |          |                    |          | +                 | +       | -  |               | 149          |          | -         | $\dashv$  | -        |          |          | -        | -        | 4         |
|             | 50           | - <u>-</u>      | Ш               | $\perp$  |          |                |              | Ш  |                 |          | $\Box$    | 100      | L        | لـــا    | Ш               |          | $oldsymbol{\perp}$ | 丄        |                   |         | J  |               | 150          |          |           |           |          |          |          | $\perp$  |          |           |